A meta-analysis of potential prognostic biomarkers in coronavirus disease 2019 (2019-nCoV)

Celestin Danwang[1*]; Francky Teddy Endomba[2]; Jan René Nkeck[3]; Dominic Leandry Wouna Angong[4], Annie Robert[1], Jean Jacques Noubiap[5]

APPENDIX

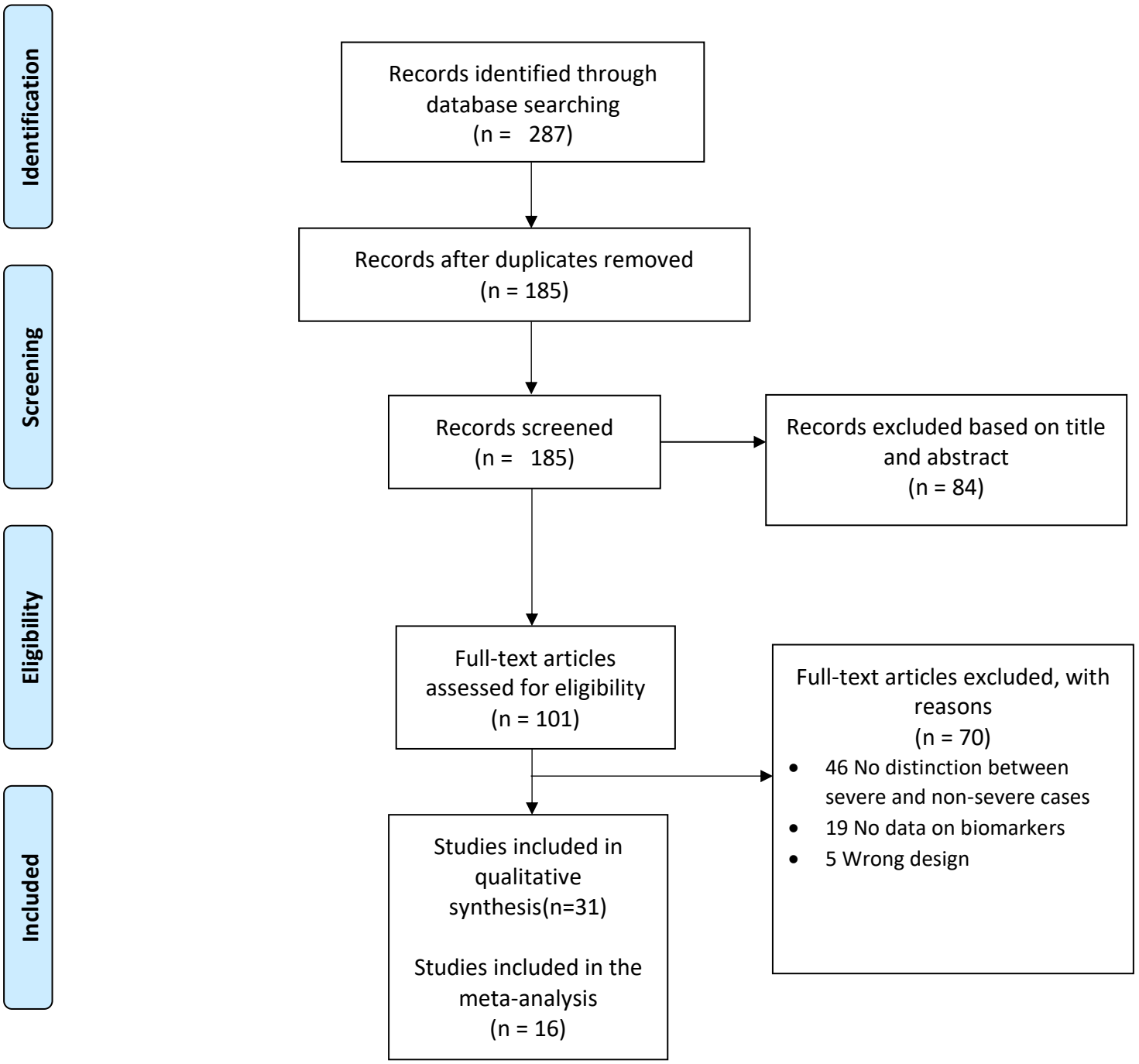
Supplementary table 1. Search strategy in PubMed and EMBASE

Search	**Search terms**
#1	COVID [tiab] OR "novel coronavirus"[tiab]
#2	Clinical features[tiab] OR clinical profil[tiab]
#3	blood disorders[MeSH Terms]
#4	#1 AND #2
#5	#1 AND #3
#6	#4 OR #5
Date: 18 April 2020 , restriction: 2019 and 2020	

Supplementary table 2.Search strategy in EMBASE

Search	**Search terms**
#1	covid OR 'novel coronavirus'
#2	clinical OR features OR profil
#3	blood AND disorders
#4	#1 AND #2
#5	#1 AND #3
#6	#4 OR #5
Date: 18 April 2020 , restriction: 2019 and 2020	

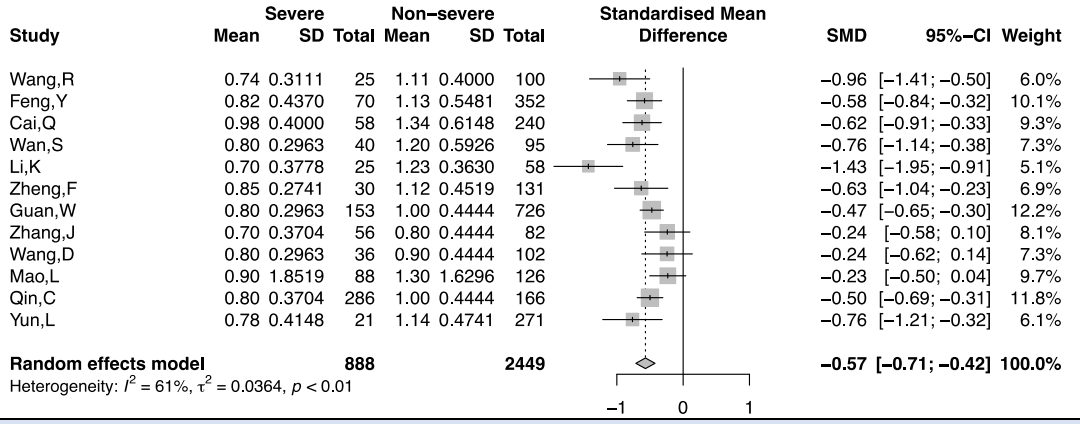
Supplementary Figure 1. The review process



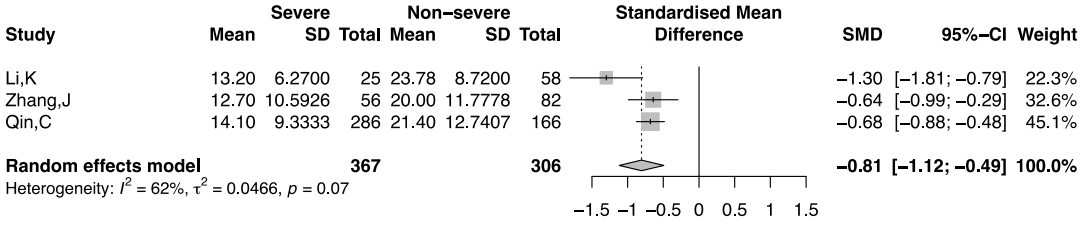
I. Forest plot of studies reporting mean and standard deviation (or interquartile range) of biomarkers in severe and non-severe groups

Meta-analysis of routine blood biomarkers

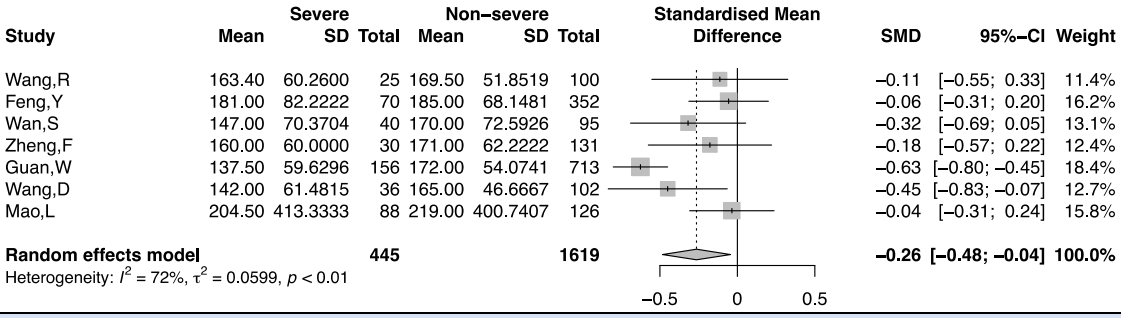
Lymphocytes count



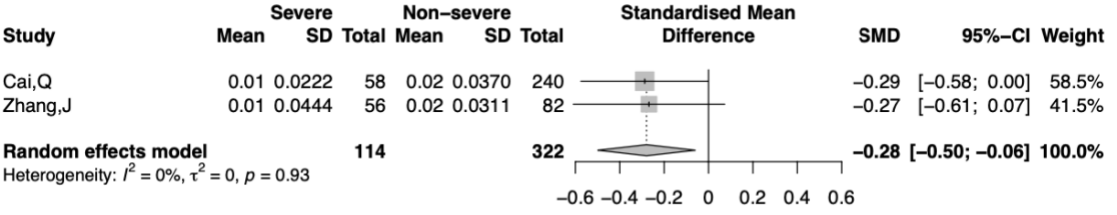
Lymphocytes %



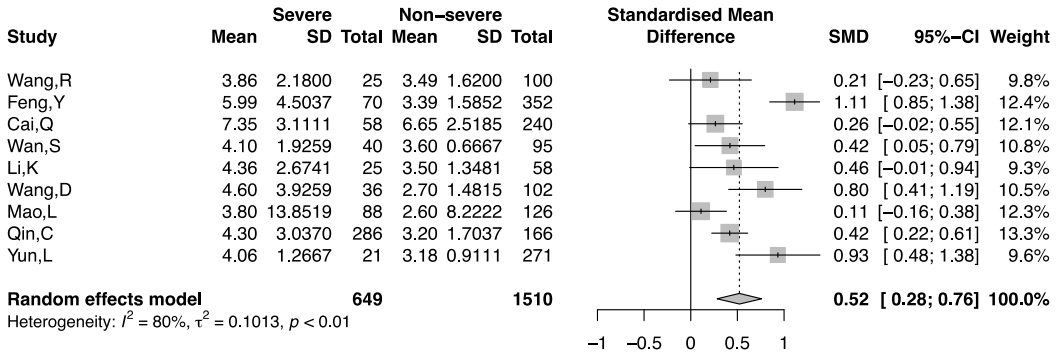
Thrombocytes



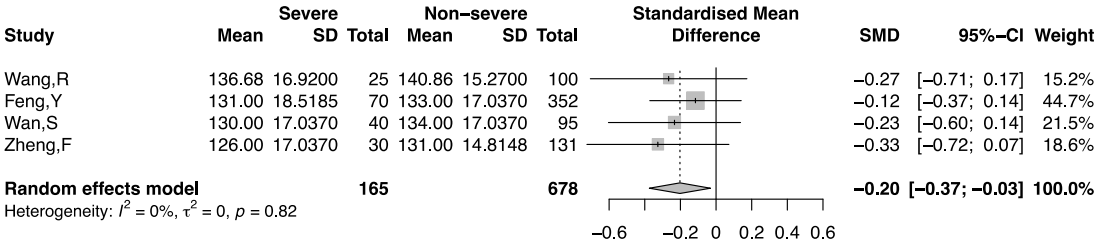
Eosinophils



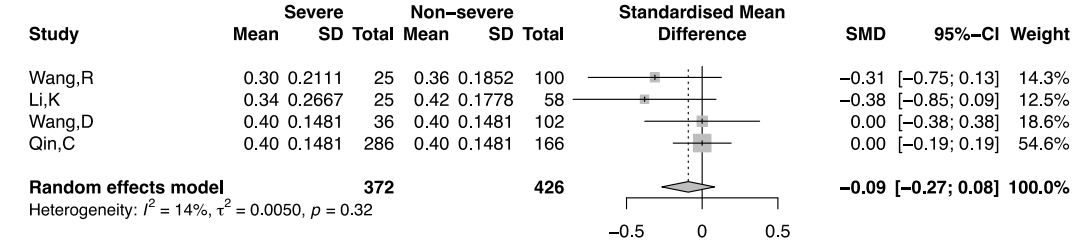
Neutrophils



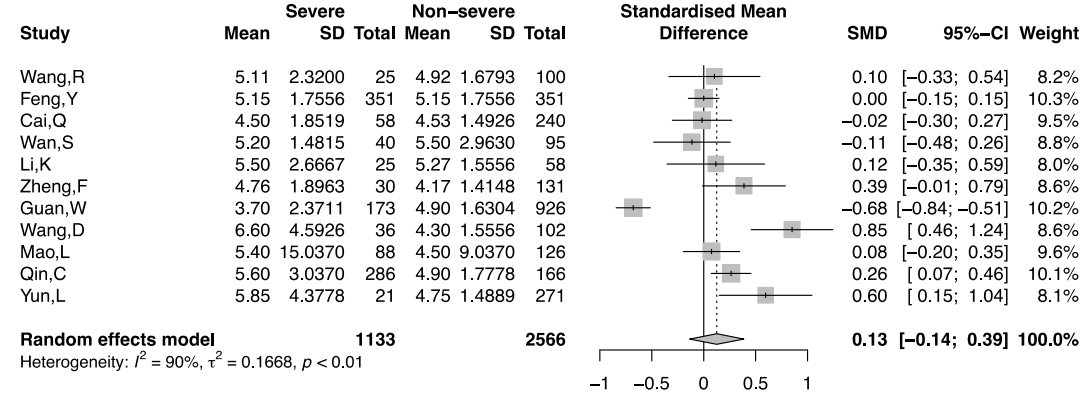
Haemoglobin



Monocytes

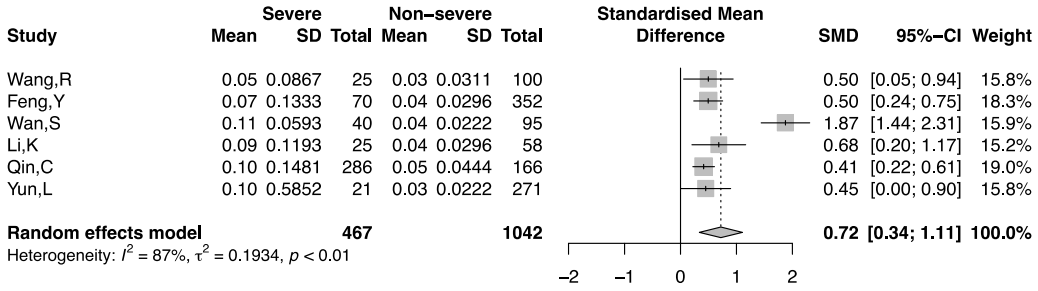


White Blood Cells

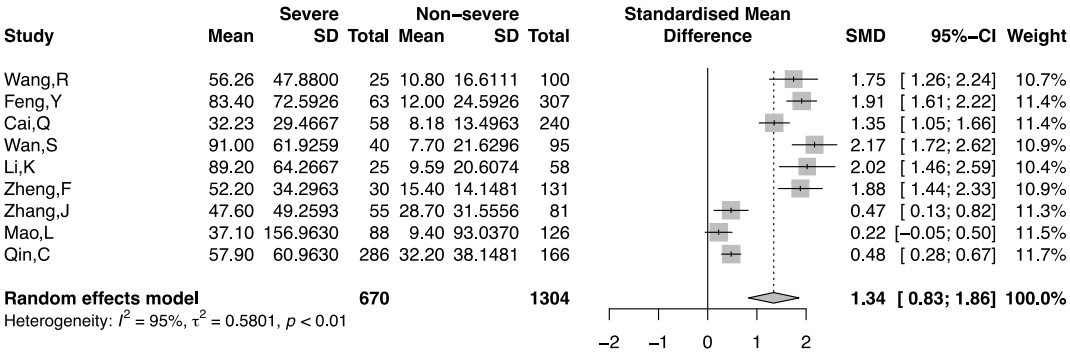


Meta-analysis of Inflammation biomarkers

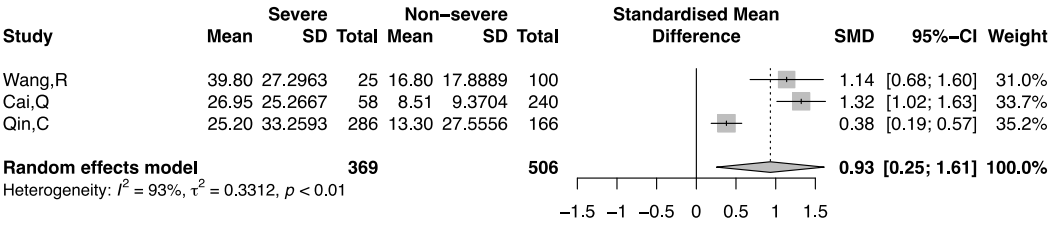
Procalcitonin



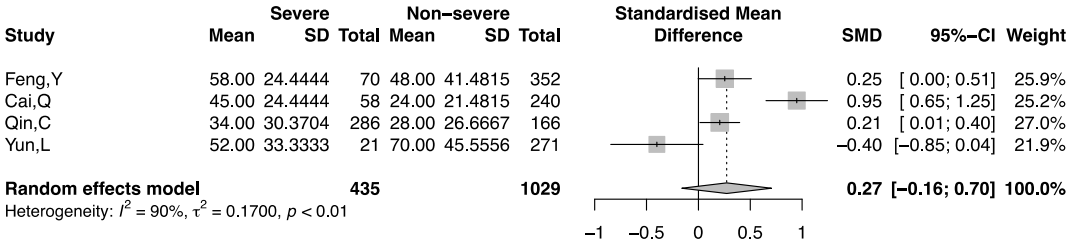
C-reactive protein



Interleukin-6

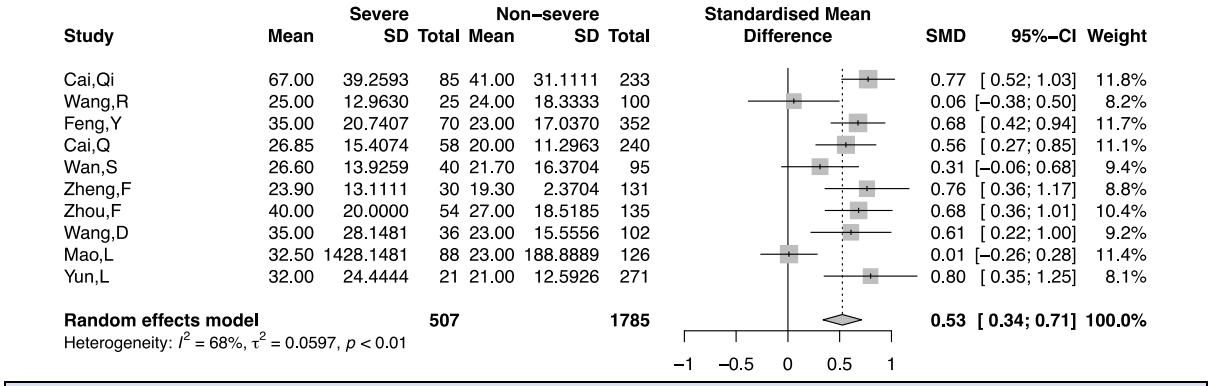


Erythrocytes sedimentation rate

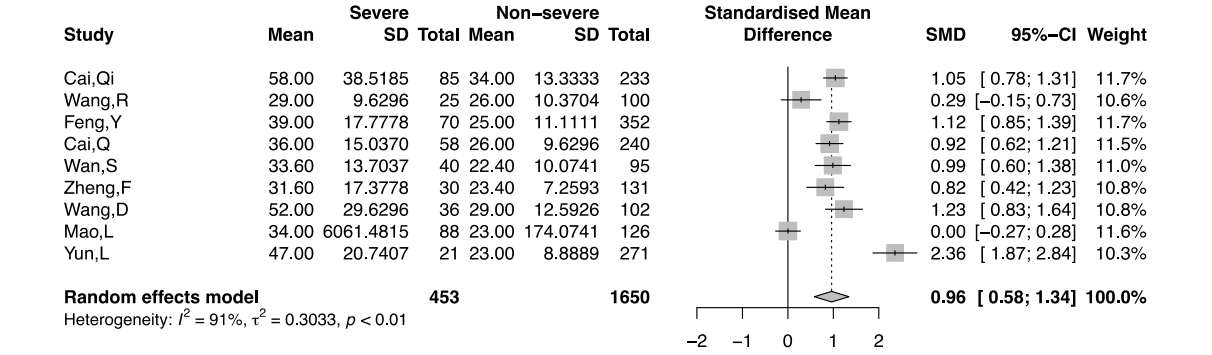


Meta-analysis of biochemical biomarkers

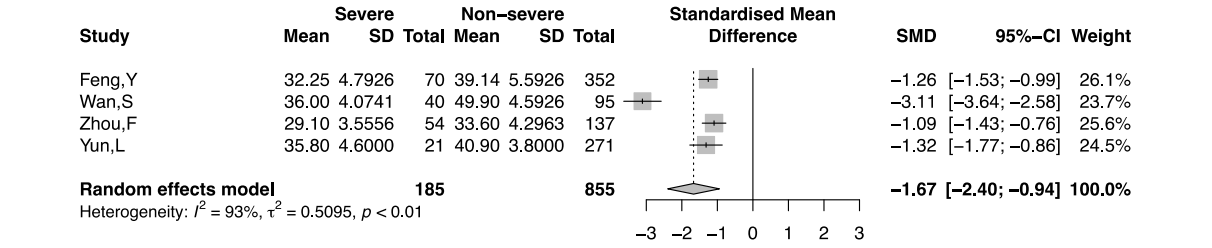
ALAT



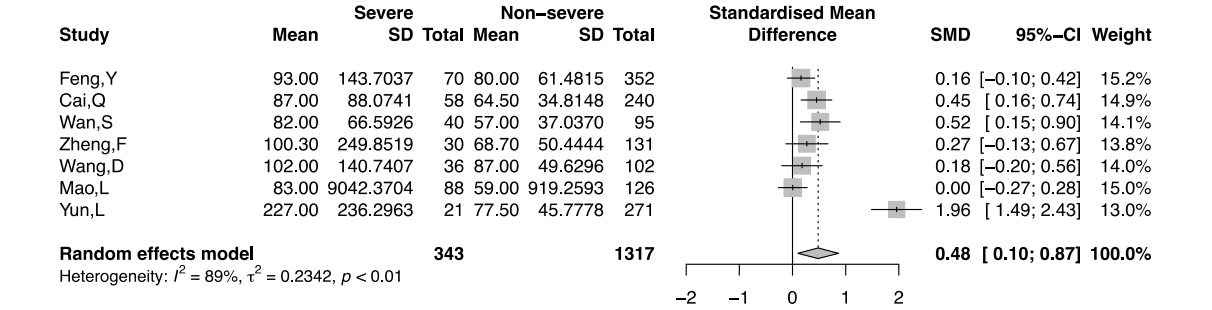
ASAT



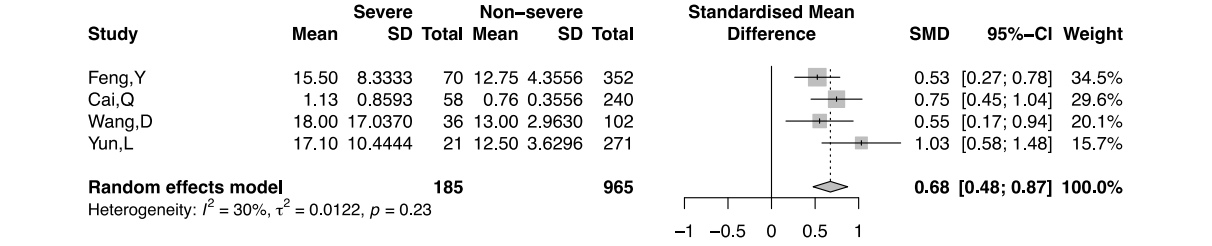
Albumin



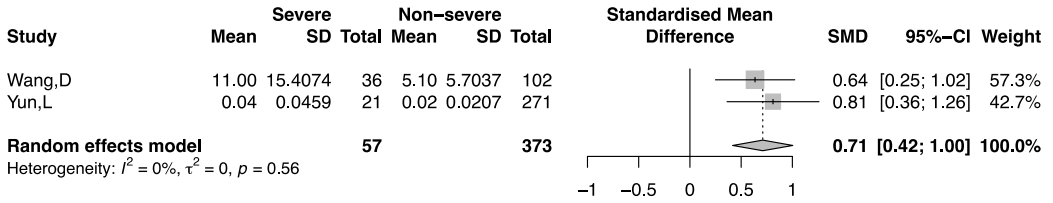
CK



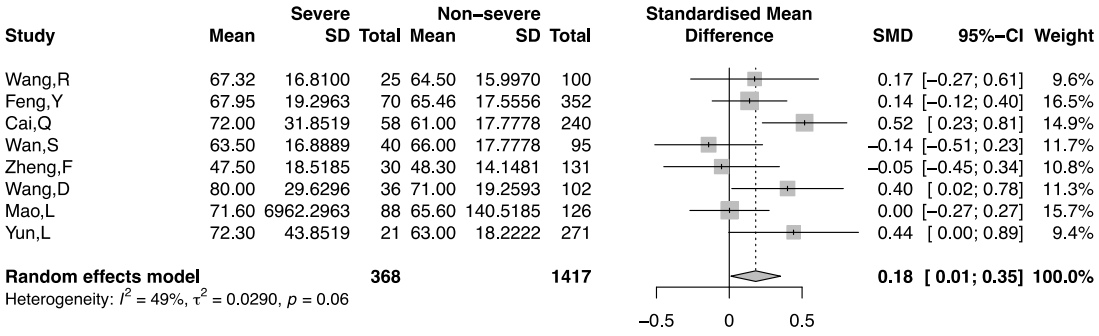
CK-MB



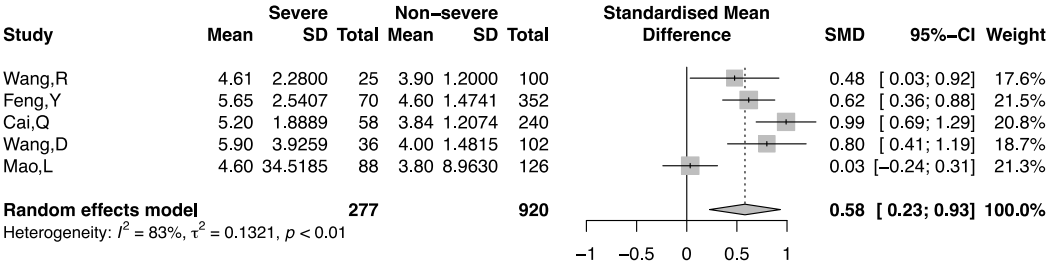
Troponin



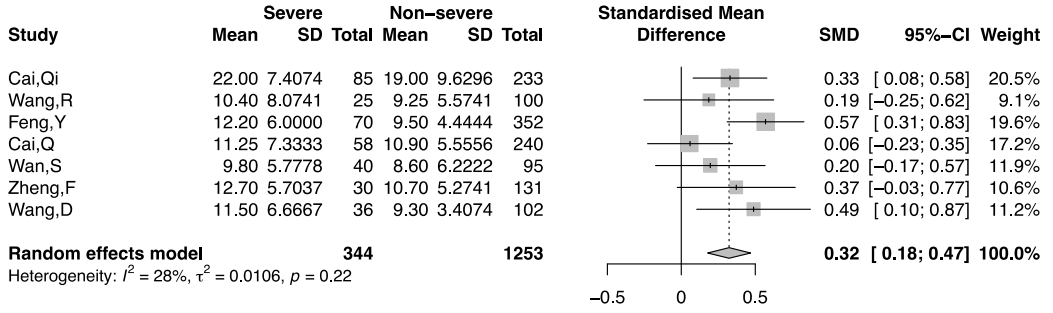
Creatinemia



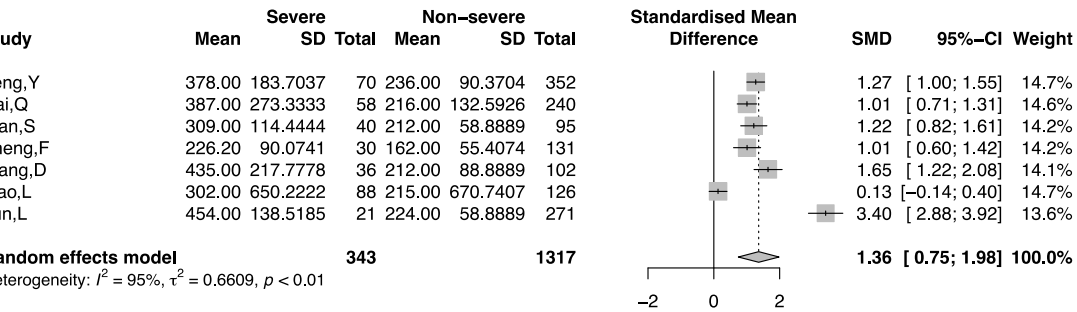
Blood urea nitrogen



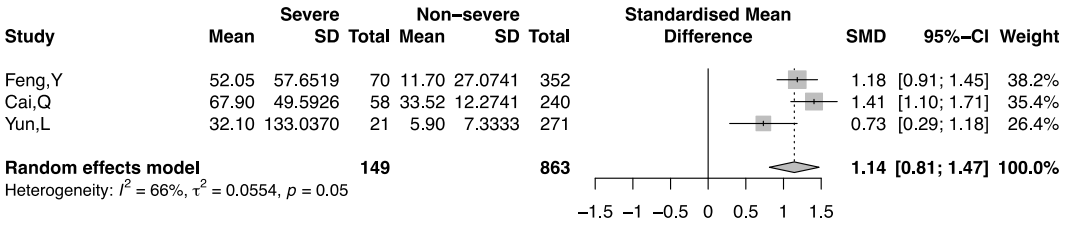
Total bilirubin



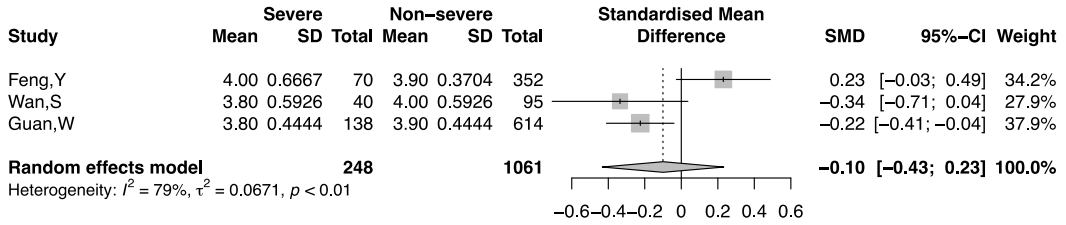
LDH



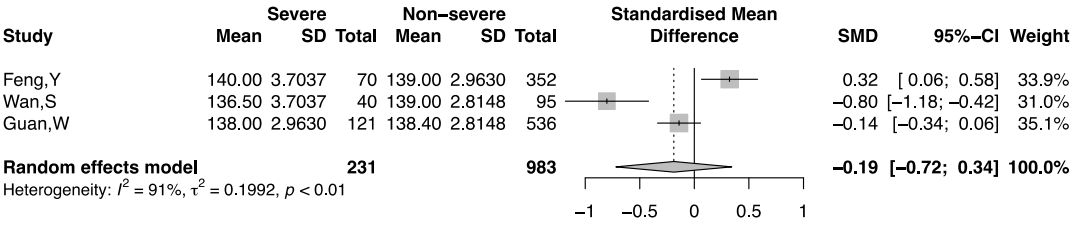
Myoglobin



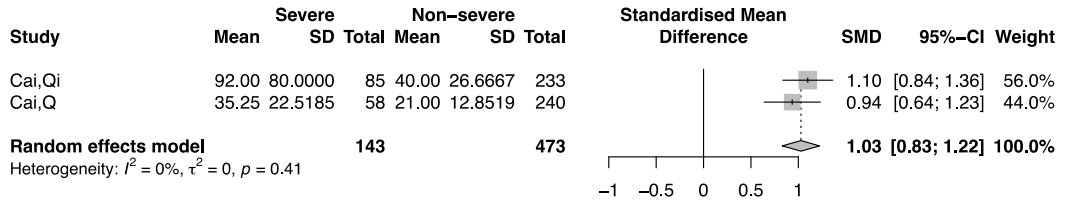
Potassium



Sodium

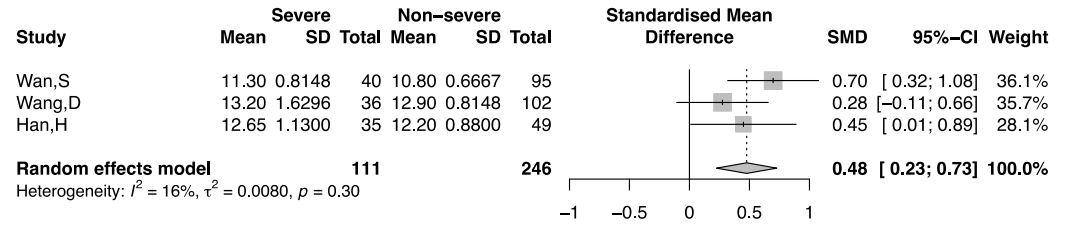


γ-GT

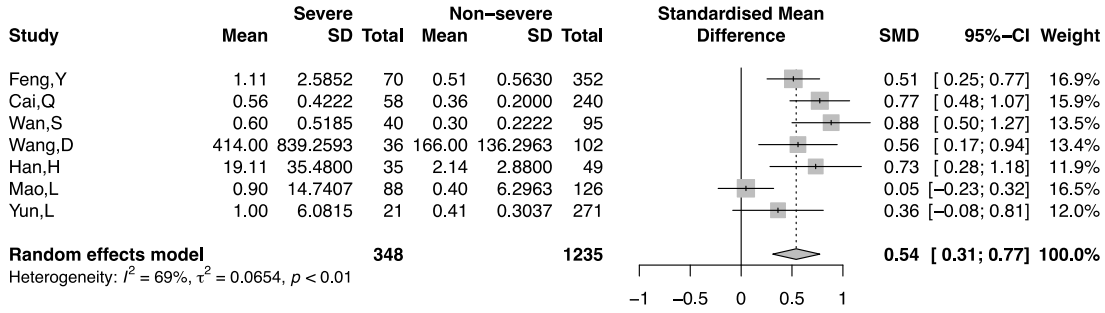


Meta-analysis of Blood clothing biomarkers

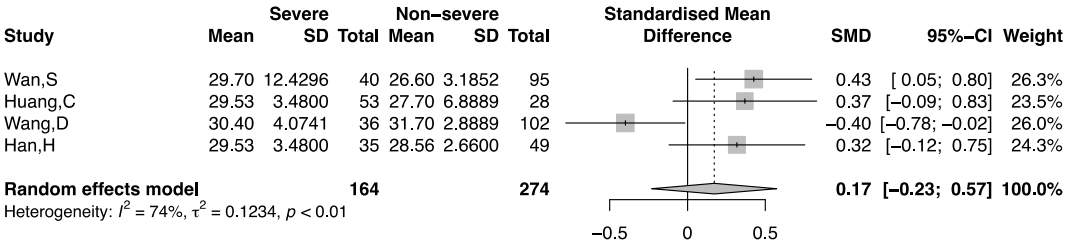
Prothrombin time



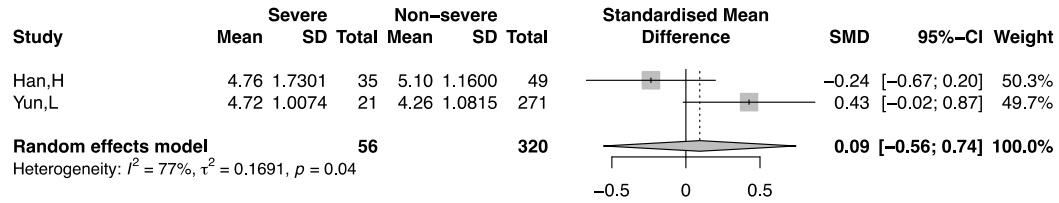
D-dimer



Activated partial thromboplastin

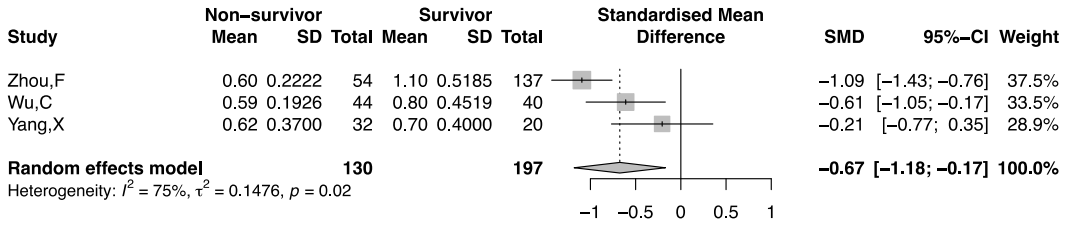


Fibrinogen

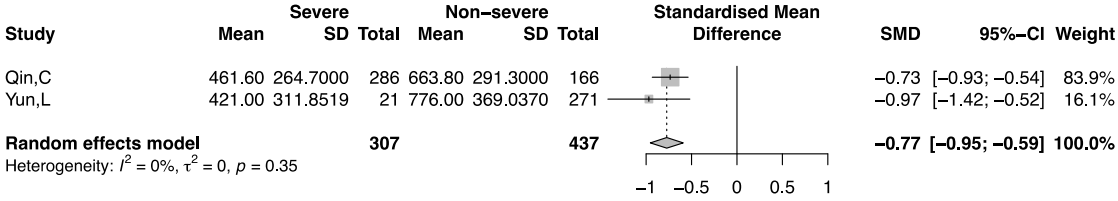


Meta-analysis of studies reporting survivor and non-survivors with mean of biomarkers

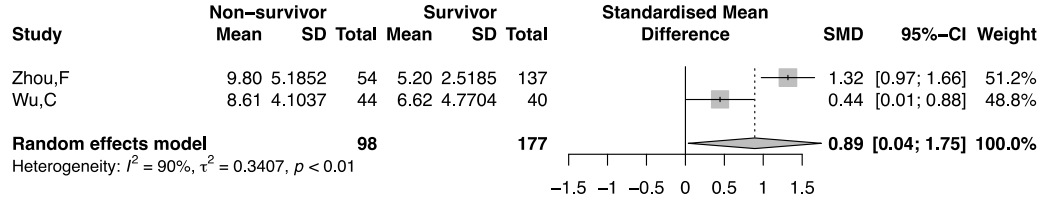
Lymphocytes



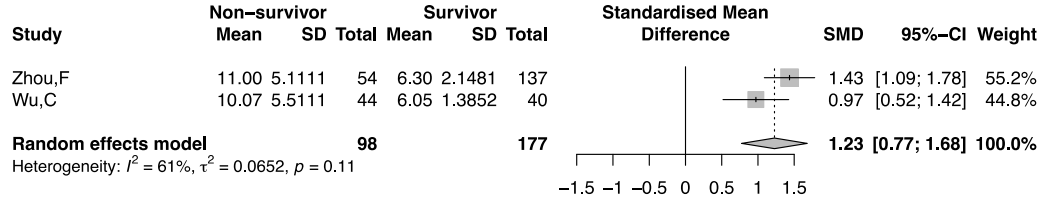
CD3+ T



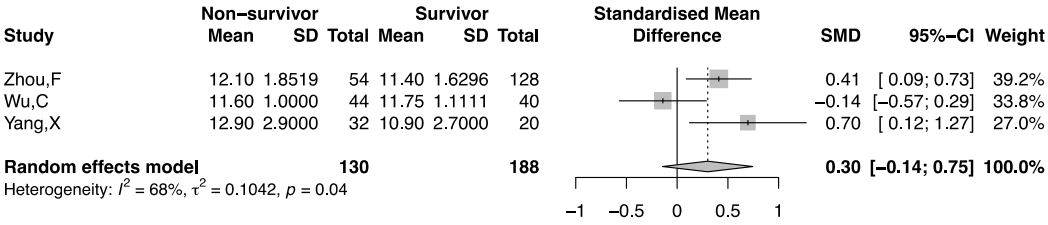
White blood cells



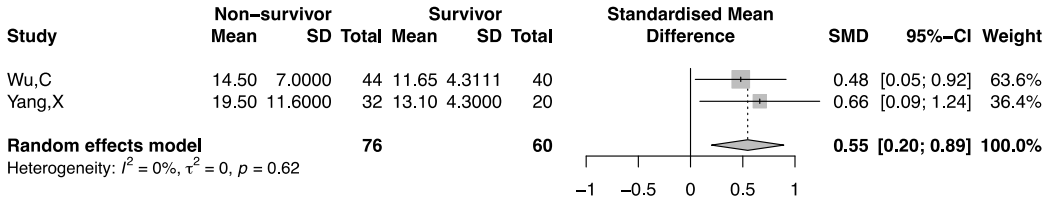
Interleukin-6



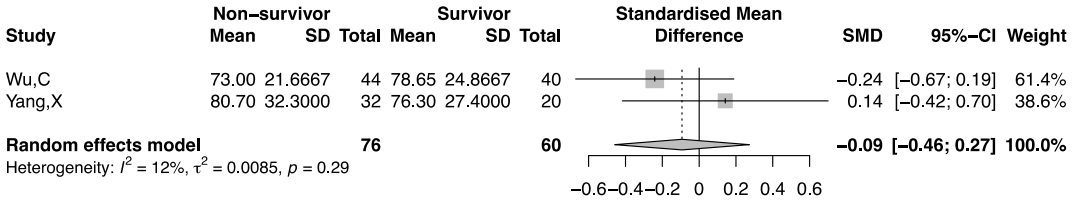
TP



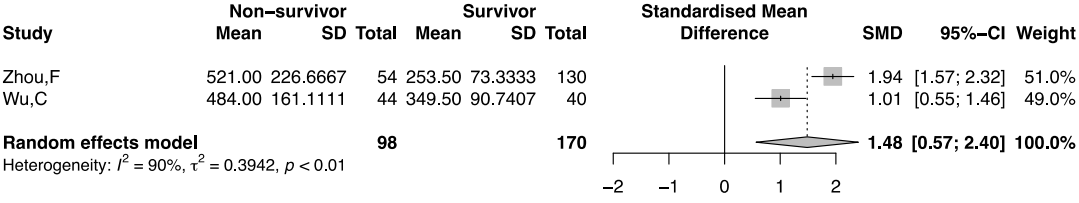
Total bilirubin



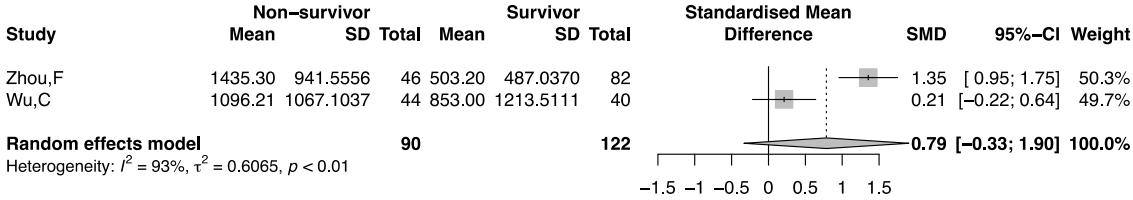
Creatinemia



LDH



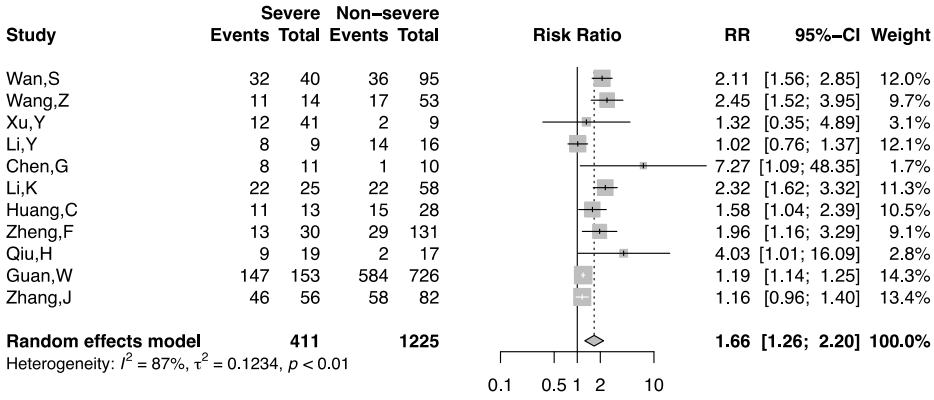
Ferritin



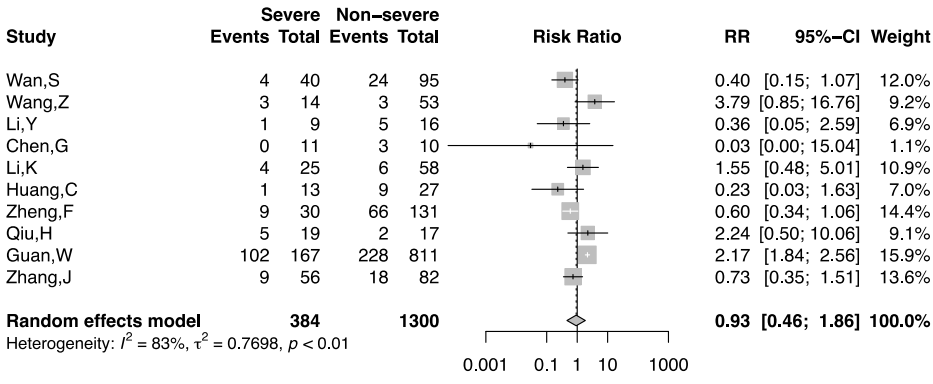
II. Forest plot of studies reporting proportion of participants with each biomarker's abnormalities

Odds of blood routine abnormalities

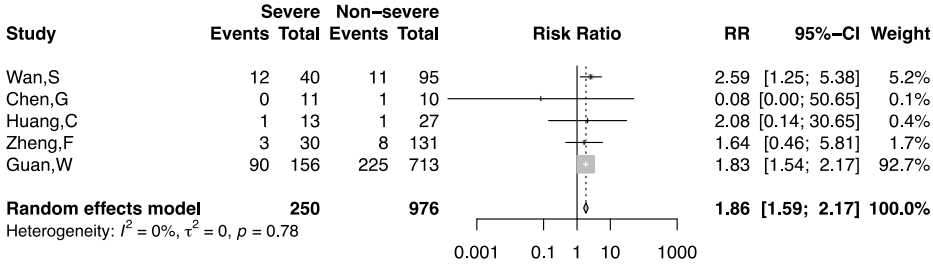
Lymphopenia



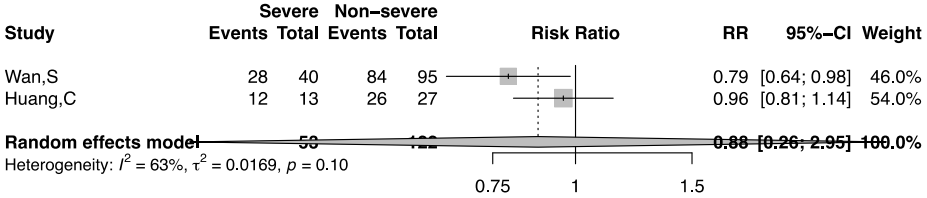
Leucopenia



Thrombocytopenia

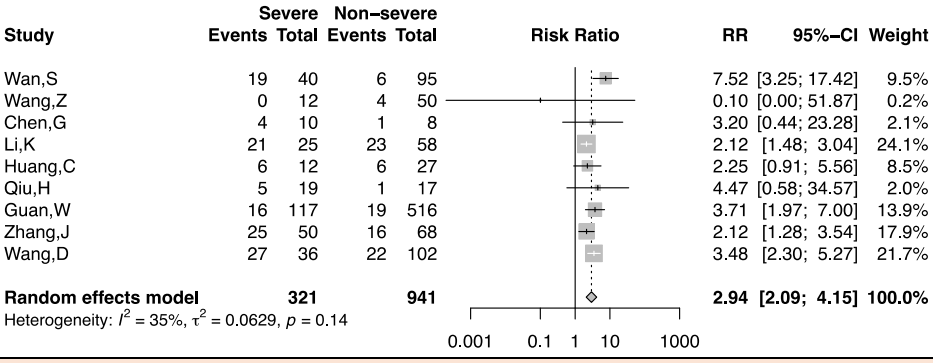


Thrombocytosis

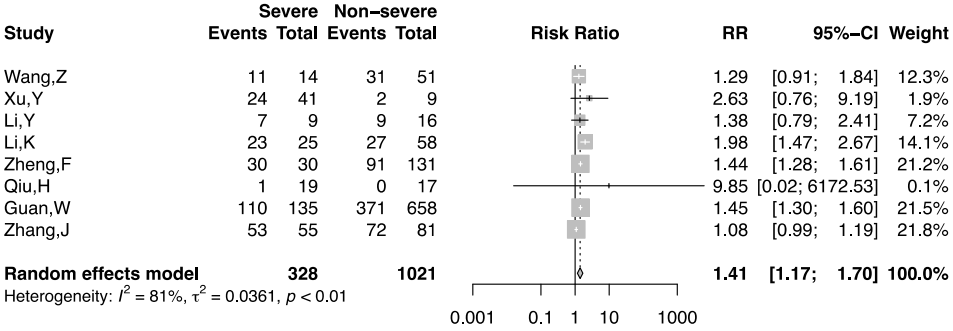


Odds of inflammatory biomarkers abnormalities

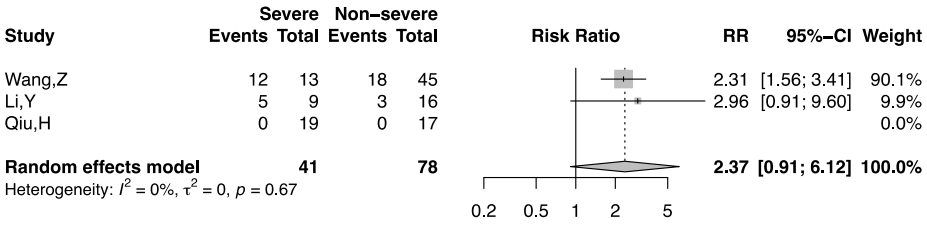
Eleveted procalcitonin



Eleveted CRP

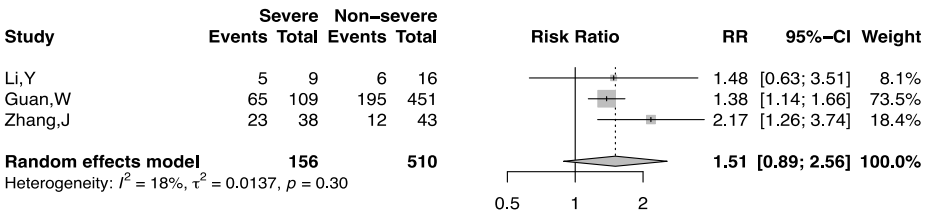


Eleveted ESR



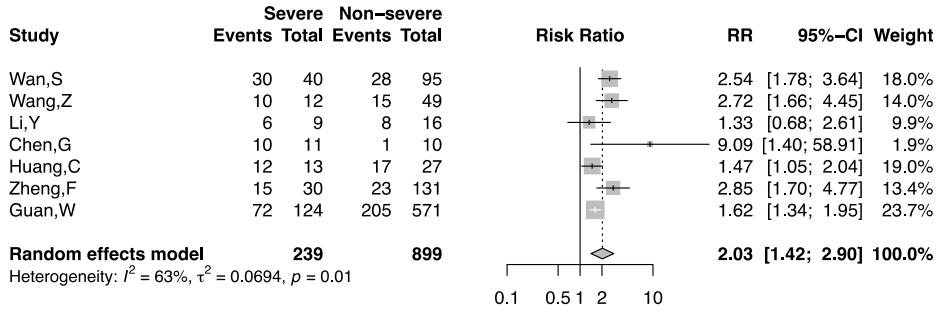
Odds of blood clothing abnormalities

Eleveted D-dimer

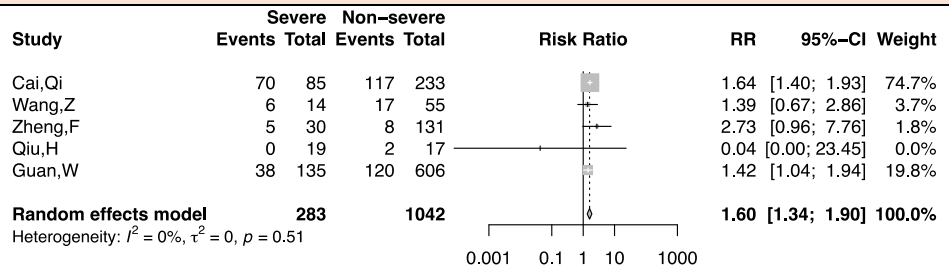


Odss of biochemical abnormalities

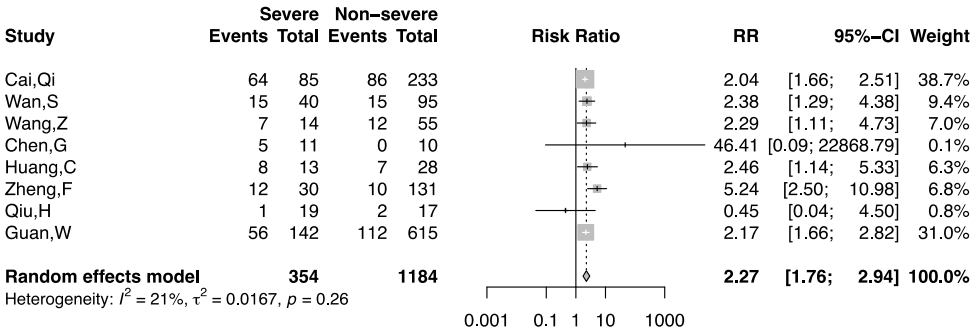
Eleveted LDH



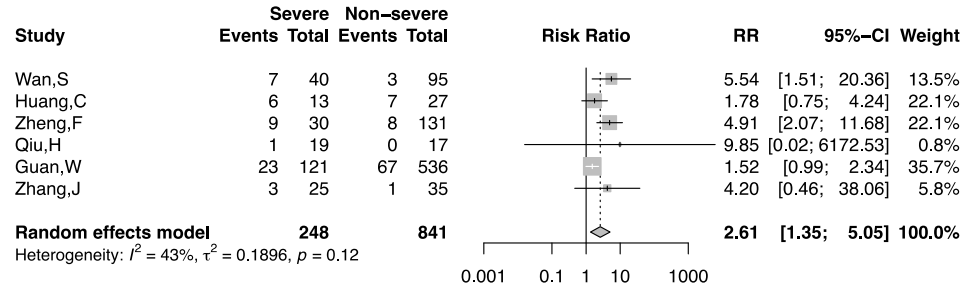
Eleveted ALAT



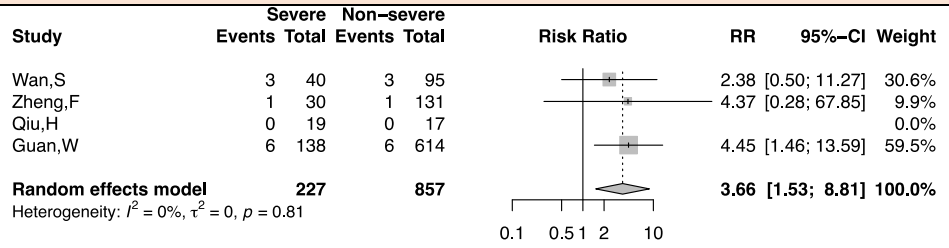
Eleveted ASAT



Eleveted CK



Eleveted Creatininemia



Eleveted totla bilirubin